

ABSTRACT OF THE DISCLOSURE

A plasma processing system for processing a workpiece by using plasma generated in a chamber, includes a light transmissive member disposed in the chamber, the workpiece being disposed inside the light transmissive member; and a light receiving unit mounted on the chamber for receiving light inside the light transmissive member, wherein a state of processing the workpiece is detected by using data detected from light inside the light transmissive member before processing the workpiece and data detected from light inside the light transmissive member generated during processing the workpiece. A plasma processing method and system is provided which facilitates an operation of the system and executes a reliable processing.